## **IN THE CLAIMS**

- 1. (Currently Amended) A broadcasting system comprising:
- a broadcasting station for broadcasting [[a]] digital content together with attribute information indicating an attribute thereof; and

a plurality of reception apparatuses having reception means for receiving said digital content and <u>said</u> attribute information broadcast from [[a]] <u>the</u> broadcasting station, a recording medium for recording <u>the</u> received digital contents and <u>the received</u> attribute information, output means for outputting <u>the</u> received digital contents, and selection means for <u>selecting allowing a user to select the</u> digital contents <u>via a filtering process</u> by comparing selection information indicating <u>users's taste</u> <u>user preferences</u> with attribute information assigned to <u>the</u> digital contents, wherein

said user is permitted to activate or deactivate the filtering process at any time;
said attribute information is expressed with an n-dimensional vector A comprising
attribute items as elements each indicative of attribute intensities for [[a]] the digital content;

taste user preference items as elements each indicative of taste preference intensities;

item types and orders for said attribute information and said selection information correspond to those for an attribute information's vector A and a selection information's vector S; and

said selection information is expressed with an n-dimensional vector S comprising user's

said <u>plurality of reception apparatus's apparatuses include</u> selection means <u>performs for</u>

<u>performing an inner product operation between [[an]] the</u> attribute information's vector A

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attached to a broadcast-digital content and [[a]] the selection information's vector S, and determines whether to select that the digital content based on an the result of the inner product operation result.

2. (Currently Amended) [[A]] The broadcasting system according to claim 1, wherein the selection means of each of said plurality of reception apparatus's selection means apparatuses finds a selection value P based on the following equation and selects [[a]] the digital content based on the a size of this the selection value P as follows:

$$A = (a1, a2, a3, ...., an)$$

$$S = (s1, s2, s3, ...., sn)$$

$$P = \frac{A \cdot S}{|A| \cdot |S|}$$

where

$$A \cdot S = \sum_{k=1}^{n} a_k S_k$$

$$|A| = \sqrt{\sum_{k=1}^{n} a_k^2}$$

$$\left|S\right| = \sqrt{\sum_{k=1}^{n} S_k^2}$$

in which neither A nor S is [[0]] a zero vector.

3. (Currently Amended) [[A]] <u>The</u> broadcasting system according to claim 1, wherein said selection information's vector S is found from a vector A of attribute information attached to a plurality of digital contents selected by [[a]] <u>the</u> user.

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4. (Currently Amended) [[A]] <u>The</u> broadcasting system according to claim 3, wherein said selection information's vector S is found according to the following equation:

$$S = \frac{1}{M} \sum_{k=1}^{M} A_k$$

where M is assumed to be the a number of digital contents selected by [[a]] the user[[;]] and an attribute vector for the K-th digital content selected by [[a]] the user is assumed to be: Ak = (a1k, a2k, a3k, ...., ank).

5. (Currently Amended) [[A]] <u>The</u> broadcasting system according to claim 3, wherein said selection information's vector S is found according to the following equation:

$$S = \frac{1}{M} \sum_{k=L-M+1}^{L} A_k$$

where M is assumed to be the <u>a</u> number of windows for finding a vector S[[;]], L is assumed to be a start point for selecting [[a]] the plurality of digital contents for finding the vector S[[;]], and an attribute vector for the K-th digital content selected by [[a]] the user is assumed to be: Ak = (a1k, a2k, a3k, ...., ank).

6. (Currently Amended) [[A]] <u>The</u> broadcasting system according to claim 3, wherein said selection information's vector S is found by averaging vectors A for attribute information attached to [[a]] <u>the</u> plurality of digital contents reproduced by [[a]] <u>the</u> user for a specified time or more.

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- 7. (Currently Amended) [[A]] The broadcasting system according to claim 3, wherein said selection information's vector S is found by averaging vectors A for attribute information attached to [[a]] the plurality of digital contents reserved by [[a]] the user.
- 8. (Currently Amended) [[A]] <u>The</u> broadcasting system according to claim 3, wherein said selection information's vector S is found by averaging vectors A for attribute information attached to [[a]] <u>the</u> plurality of digital contents reproduced by [[a]] <u>the</u> user for a specified time or more, averaging vectors A for attribute information attached to [[a]] <u>the</u> plurality of digital contents reserved by [[a]] <u>the</u> user, assigning a weight to each average, and combining <u>these</u> the weights.
- 9. (Currently Amended) [[A]] <u>The</u> broadcasting system according to claim 1, wherein the selection means of each of said <u>plurality of reception apparatuses</u> selects [[a]] <u>the</u> digital content based on a vector S of <u>the</u> selection information corresponding to a plurality of users.
  - (Currently Amended) A reception apparatus comprising:
     reception means for receiving said digital content and attribute information broadcast

from a broadcasting station;

<u>a</u> recording medium for recording <u>the</u> received digital content and <u>the</u> attribute information;

output means for outputting the received digital content; and

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selection means for selecting a <u>allowing a user to select the</u> digital content <u>via a filtering</u>

<u>process</u> by comparing selection information indicating <u>user's taste</u> <u>user preferences</u> with attribute information attached to the digital content, wherein

said user is permitted to activate or deactivate the filtering process at any time;
said attribute information is expressed with an n-dimensional vector A comprising
attribute items as elements each indicative of attribute intensities for [[a]] the digital content;
said selection information is expressed with an n-dimensional vector S comprising user's

taste user preference items as elements each indicative of taste preference intensities;

item types and orders for said attribute information and said selection information correspond to those for an attribute information's vector A and a selection information's vector S; and

said selection means performs an inner product operation between [[an]] <u>the</u> attribute information's vector A <u>attached to a broadcast digital content</u> and [[a]] <u>the</u> selection information's vector S<sub>2</sub> and determines whether to select <u>that</u> <u>the</u> digital content based on <u>an the result of the</u> inner product operation <u>result</u>.

11. (Currently Amended) [[A]] <u>The</u> reception apparatus according to claim 10, wherein said selection means finds a selection value P based on the following equation and selects [[a]] <u>the</u> digital content based on the <u>a</u> size of this the selection value P <u>as follows</u>:

$$A = (a1, a2, a3, ...., an)$$

$$S = (s1, s2, s3, ...., sn)$$

$$P = \frac{A \cdot S}{|A| \cdot |S|}$$

where

$$A \cdot S = \sum_{k=1}^{n} a_k S_k$$
$$|A| = \sqrt{\sum_{k=1}^{n} a_k^2}$$

$$|A| = \sqrt{\sum_{k=1}^{n} \alpha_k^2}$$

$$|S| = \sqrt{\sum_{k=1}^{n} S_k^2}$$

in which neither A nor S is [[0]] a zero vector.

- 12. (Currently Amended) [[A]] The reception apparatus according to claim 10, wherein said selection information's vector S is found from a vector A of attribute information attached to a plurality of digital contents selected by [[a]] the user.
- 13. (Currently Amended) [[A]] The reception apparatus according to claim 12, wherein said selection information's vector S is found according to the following equation:

$$S = \frac{1}{M} \sum_{k=1}^{M} A_k$$

where M is assumed to be the a number of digital contents selected by [[a]] the user[[;]] and an attribute vector for the K-th digital content selected by [[a]] the user is assumed to be: Ak = (a1k, a2k, a3k, ...., ank)

14. (Currently Amended) [[A]] <u>The</u> reception apparatus according to claim 12, wherein said selection information's vector S is found according to the following equation:

$$S = \frac{1}{M} \sum_{k=L-M+1}^{L} A_k$$

where M is assumed to be the <u>a</u> number of windows for finding a vector  $S[[;]]_x$  L is assumed to be a start point for selecting [[a]] the plurality of digital contents for finding the vector  $S[[;]]_x$  and an attribute vector for the K-th digital content selected by [[a]] the user is assumed to be: Ak = (a1k, a2k, a3k, ...., ank).

- 15. (Currently Amended) [[A]] <u>The</u> reception apparatus according to claim 12, wherein said selection information's vector S is found by averaging vectors A for attribute information attached to [[a]] <u>the</u> plurality of digital contents reproduced by [[a]] <u>the</u> user for a specified time or more.
- 16. (Currently Amended) [[A]] <u>The</u> reception apparatus according to claim 12, wherein said selection information's vector S is found by averaging vectors A for attribute information attached to [[a]] <u>the</u> plurality of digital contents reserved by [[a]] <u>the</u> user.
- 17. (Currently Amended) [[A]] <u>The</u> reception apparatus according to claim 12, wherein said selection information's vector S is found by averaging vectors A for attribute information attached to [[a]] <u>the</u> plurality of digital contents reproduced by [[a]] <u>the</u> user for a specified time or more, averaging vectors A for attribute information attached to [[a]] <u>the</u> plurality of digital contents reserved by [[a]] <u>the</u> user, assigning a weight to each average, and combining <u>these</u> <u>the</u> weights.

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18. (Currently Amended) [[A]] <u>The</u> reception apparatus according to claim 10, wherein said selection means selects [[a]] <u>the</u> digital content based on a vector S of <u>the</u> selection information corresponding to a plurality of users.

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